

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

- Claim 1. (Original) A method for analysis of a small molecule comprising contacting a sample containing at least one small molecule with a surfactant represented by the formula:



in which

p is 0, 1 or 2;

R is alkyl;

R<sub>1</sub> and R<sub>2</sub> are each, independently, hydrogen or methyl; and

R<sub>3</sub> is selected from -OSO<sub>3</sub><sup>-</sup>, -R<sub>4</sub>OSO<sub>3</sub><sup>-</sup>, -R<sub>4</sub>OR<sub>5</sub>SO<sub>3</sub><sup>-</sup>, and -OR<sub>5</sub>SO<sub>3</sub><sup>-</sup>,

wherein R<sub>4</sub> and R<sub>5</sub> are each, independently, lower alkyl; to thereby analyze the small molecule.

- Claim 2. (Original) The method of claim 1, wherein the sample is a biological sample.

- Claim 3. (Original) The method of claim 2, wherein the biological sample comprises one or more cells.
- Claim 4. (Original) The method of claim 3, wherein the biological sample comprises a tissue culture.
- Claim 5. (Original) The method of claim 3, wherein the biological sample comprises a biological fluid, a biological tissue, a biological matrix, an embedded tissue sample, a cell culture supernatant, or combination thereof.
- Claim 6. (Original) The method of claim 2, wherein the analysis comprises lysis of the cell.
- Claim 7. (Original) The method of claim 2, wherein the analysis comprises clarification
- Claim 8. (Original) The method of claim 2, wherein the analysis comprises clarification of tissue culture supernatant.
- Claim 9. (Original) The method of claim 2, wherein the analysis comprises dissociation of a small molecule from a biological matrix.
- Claim 10. (Original) The method of claim 2, wherein the biological fluid is selected from the group consisting of blood, blood plasma, urine, spinal fluid, mucosal tissue secretions, tears, interstitial fluid, synovial fluid, semen, and breast milk.

- Claim 11. (Original) The method of claim 1, wherein the analysis comprises isolation of the small molecule.
- Claim 12. (Original) The method of claim 1, wherein the analysis is selected from the group consisting of solid phase extraction, solid phase micro extraction, electrophoresis, mass spectrometry, liquid chromatography, liquid-liquid extraction, membrane extraction, soxhlet extraction, precipitation, clarification, electrochemical detection, staining, elemental analysis, Edmund degradation, nuclear magnetic resonance, infrared analysis, flow injection analysis, capillary electrochromatography, ultraviolet detection, and combinations thereof.
- Claim 13. (Original) The method of claim 1, wherein the small molecule is selected from the group consisting of a drug, a prodrug, a metabolite of a drug, and a product of a reaction associated with a natural biological process.
- Claim 14. (Original) The method of claim 1 wherein the analysis comprises high performance liquid chromatography.
- Claim 15. (Original) The method of claim 1 wherein the analysis comprises solid phase extraction.
- Claim 16. (Original) The method of claim 1 wherein the analysis comprises mass spectrometric detection.
- Claims 17-51 (Cancelled)

Claim 52. (New) A method for analysis of a small molecule comprising contacting a biological sample that comprises one or more cells, said sample containing at least one small molecule, with a surfactant represented by the formula:



in which

p is 0, 1 or 2;

R is alkyl;

R<sub>1</sub> and R<sub>2</sub> are each, independently, hydrogen or methyl; and

R<sub>3</sub> is selected from -OSO<sub>3</sub><sup>-</sup>, -R<sub>4</sub>OSO<sub>3</sub><sup>-</sup>, -R<sub>4</sub>OR<sub>5</sub>SO<sub>3</sub><sup>-</sup>, and -OR<sub>5</sub>SO<sub>3</sub><sup>-</sup>,

wherein R<sub>4</sub> and R<sub>5</sub> are each, independently, lower alkyl; to thereby analyze the small molecule; and

wherein the small molecule is selected from the group consisting of a drug, a prodrug, a metabolite of a drug, and a product of a reaction associated with a natural biological process.